

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/602,054		06/2	24/2003	Dae-Ho Choo	61920219D1	1023	
7590 02/28/2006		02/28/2006		EXAMINER			
	McGuire Woo Suite 1800	ds LLP			RUDE, TIMOTHY L		
	1750 Tysons Bo	oulevard			ART UNIT	PAPER NUMBER	
McLean, VA 22102					2883		

DATE MAILED: 02/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

ì),	١	I
1	7	١	Í

		Application	n No.	Applicant(s)			
		10/602,05	4	CHOO ET AL.			
	Office Action Summary	Examiner		Art Unit			
		Timothy L.	Rude	2883			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the	cover sheet with the c	orrespondence ad	idress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any - earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on <u>06</u>	December 20	<u>005</u> .				
, <u> </u>		is action is no					
3)□	Since this application is in condition for allow	ance except	for formal matters, pro	secution as to the	e merits is		
,—	closed in accordance with the practice under	Ex parte Qua	ayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims						
4)🖂	Claim(s) 1,2,4-32 and 56 is/are pending in the	e application.					
•	4a) Of the above claim(s) <u>21-32</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
•	Claim(s) <u>1,2,4-20 and 56</u> is/are rejected.						
•	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and/	or election re	equirement.				
·			•				
Applicati	on Papers		•				
9)[The specification is objected to by the Examir	ner.					
10)	The drawing(s) filed on is/are: a) \square ac	cepted or b)[\square objected to by the E	Examiner.			
	Applicant may not request that any objection to the	e drawing(s) b	e held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the corre	ction is require	ed if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).		
11)	The oath or declaration is objected to by the E	Examiner. No	te the attached Office	Action or form P	TO-152.		
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	3)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	O-152)		

Art Unit: 2883

DETAILED ACTION

Claim Objections

1. On page 3 of the response filed 06 December 2005 Applicant made the admission that the 10 June 2005 amendment to claim 1 does not result in an independent or distinct invention under MPEP 802.01. Please compare Applicant's prior admissions filed 20 May 2004, pages 3-5.

Since applicant clearly admitted on the record that the species are not patentably distinct, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. In view of said admission, objection to claim 1 is withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Application/Control Number: 10/602,054 Page 3

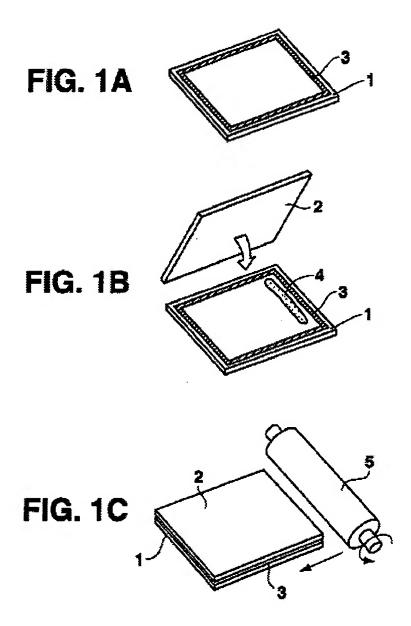
Art Unit: 2883

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1, 2, 4-20, and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawasumi et al (Kawasumi) USPAT 5,978,065 in view of Adachi, Japanese patent application publication JP 56114928 A.

As to claim 1, Kawasumi discloses (Figures 1A-3B) apparatus and a method for manufacturing liquid crystal displays (entire patent, background of the invention, and especially col. 5, line 13 through col. 7, line 14), comprising: applying sealant on one of two substrates of a mother glass, the mother glass having at least one liquid crystal cell (col. 5, lines 14-37) [inherently requires Applicant's sealant applying unit, even if it is manual], a substrate-attaching unit, 5 and 7, conjoining substrates in a vacuum (background, suitable though more costly method – affords better degasification of liquid crystal material). Please note numerous references teach these steps/apparatus.

Art Unit: 2883



Art Unit: 2883

FIG. 2

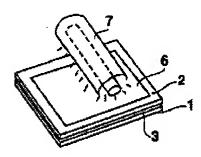


FIG. 3A

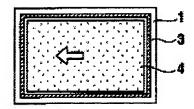
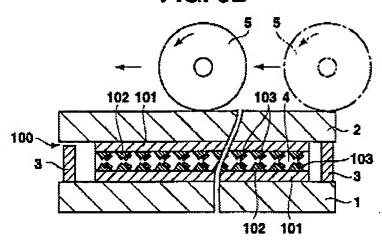


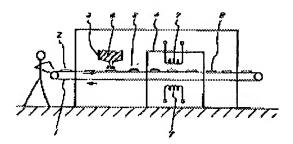
FIG. 3B



Kawasumi does not explicitly disclose the use of an in-line conveying unit.

Art Unit: 2883

Adachi teaches the use of a belt conveyor to provide a cleaner environment for the operators.



Adachi is evidence that ordinary workers in the art of liquid crystals would find the reason, suggestion, or motivation to add the use of a belt conveyor to provide a cleaner environment for the operators.

Therefore, it would have been obvious to one having ordinary skill in the art of liquid crystals at the time the invention was made to modify the LCD system of Kawasumi with the belt conveyor of Adachi to provide a cleaner environment for the operators.

As to claims 2, 4-20, and 56, Kawasumi in view of Adachi as combined above discloses the apparatus of claim 1, above. The added limitations of claims 2-20 and 56 are drawn to inventions of an in-line system that are not patentably distinct per Applicant's admission in Paper No. 20040520 [remarks filed 20 May 2004, top of pages 3 and 5]. Therefore claims 2-10 and 56 are rejected on the bases that they are not patentably distinct from rejected base claim 1.

Page 7

Application/Control Number: 10/602,054

Art Unit: 2883

3. Rejection of claims 1, 2, 4-20, and 56 under 35 U.S.C. 103(a) as being unpatentable over Kawasumi et al (Kawasumi) USPAT 5,978,065 in view of Ogawa USPAT 6,680,759 B2 is withdrawn.

Response to Arguments

Applicant's arguments filed on 06 December 2005 have been fully considered but they are not persuasive.

Applicant's ONLY substantive arguments are as follows:

- (1) Objection to claim 1 should be withdrawn because added limitations are not patentably distinct. Claim 1 was amended 10 June 2005 to merely add limitations drawn to the elected in-line convey unit and to add the limitations of canceled claim 3.
- (2) Ogawa is after Applicant's priority date, and an English translation is provided.
- (3) Kawasumi and Adachi fail to teach a sealant heat-treating unit forming a reaction-prevention layer on a surface of the sealant to prevent a reaction between the sealant and a liquid crystal material.
- (4) Dependent claims are allowable because they directly or indirectly depend from an allowable base claim.

Page 8

Application/Control Number: 10/602,054

Art Unit: 2883

Examiner's responses to Applicant's ONLY arguments are as follows:

- (1) It is respectfully pointed out that since applicant clearly admitted on the record that the species are not patentably distinct, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. In view of said admission, objection to claim 1 is withdrawn.
- (2) It is respectfully pointed out that rejections bases upon Ogawa are withdrawn.
- (3) It is respectfully pointed out that Applicant has made the omission that the amended claim 1 limitations of a sealant heat-treating unit forming a reaction-prevention layer on a surface of the sealant to prevent a reaction between the sealant and a liquid crystal material are not patentably distinct from the original claim 1. Claim 1 remains rejected because Applicant's admission was used in a rejection under 35 U.S.C. 103(a) of the other invention.
- (4) It is respectfully pointed out that in so far as Applicant has not argued rejection(s) of the limitations of dependent claim(s), Applicant has acquiesced said rejection(s).

Any references cited but not applied are relevant to the instant Application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2883

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ala

Timothy L Rude Examiner Art Unit 2883

UL

Frank G. Font
Supervisory Patent Examiner
Technology Center 2800